I 49.89:82/47-1/map C18

MMS 85-0011
FWS/OBS-82/47.1

MAP C18

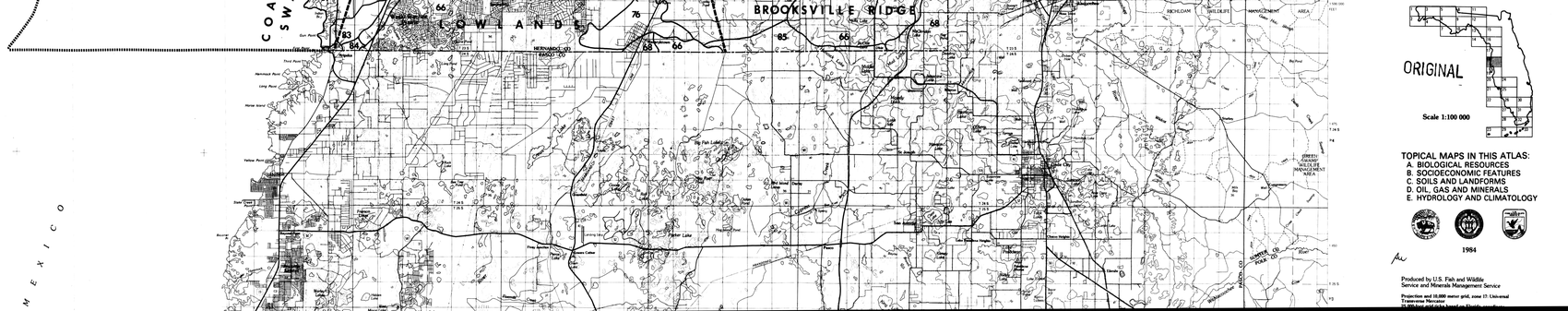
# Tarpon Springs

## FLORIDA ECOLOGICAL ATLAS

### SOILS AND LANDFORMS

TARPON SPRINGS, FLORIDA

30 X 60 MINUTE SERIES (TOPOGRAPHIC)




ORIGINAL

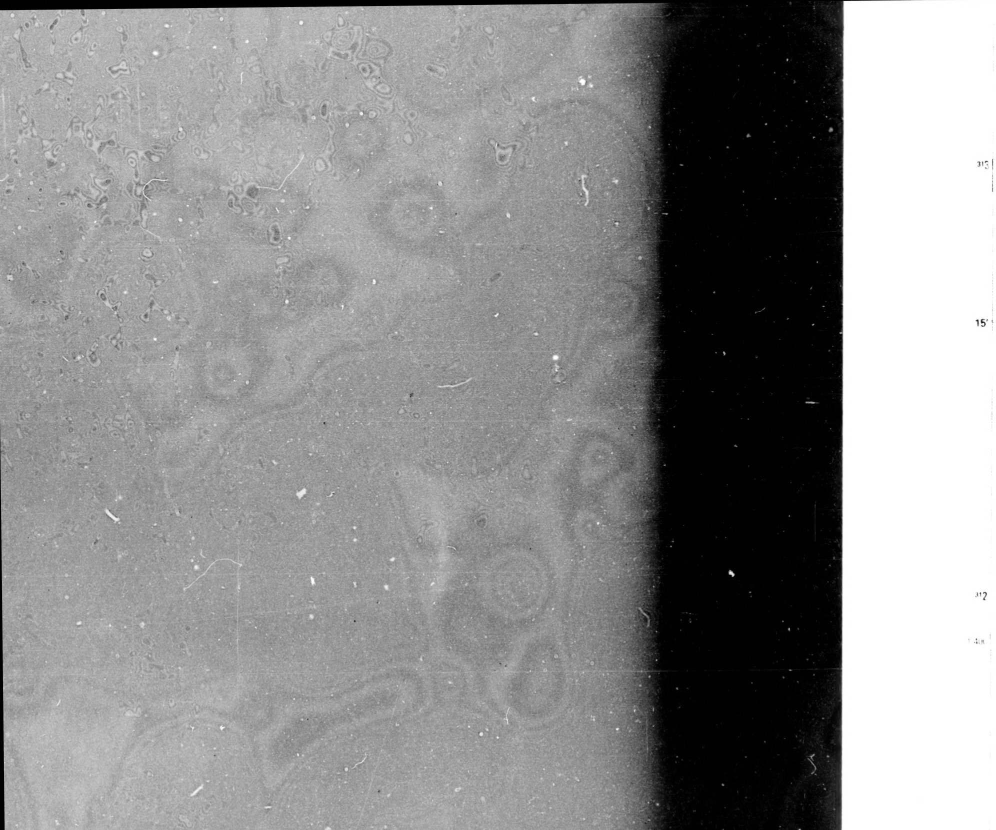
Scale 1:100 000

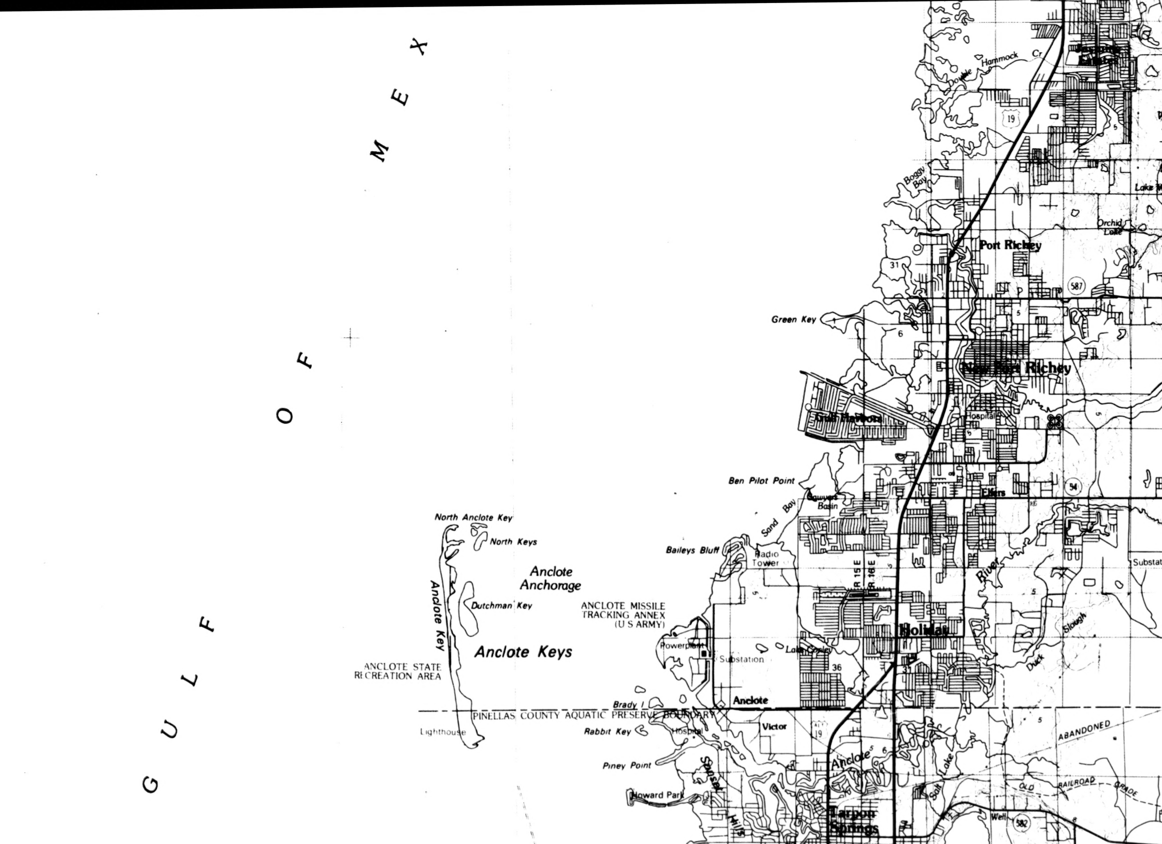
TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

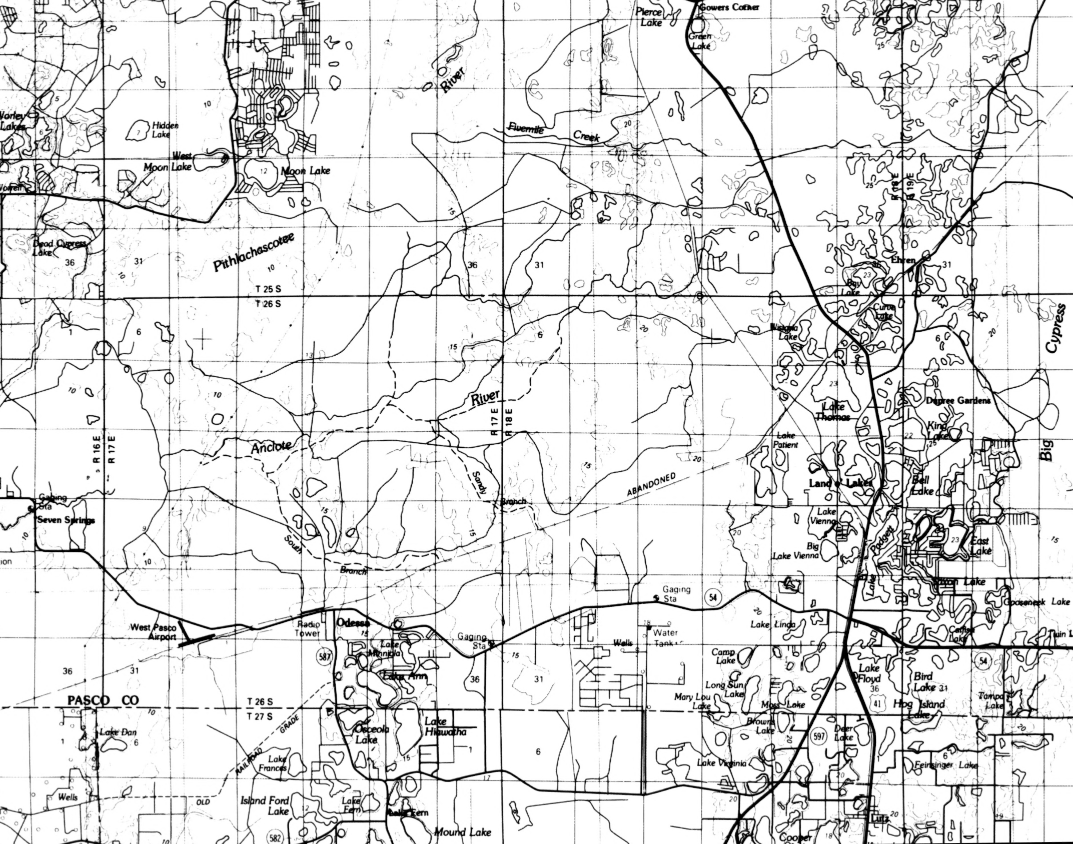
1984

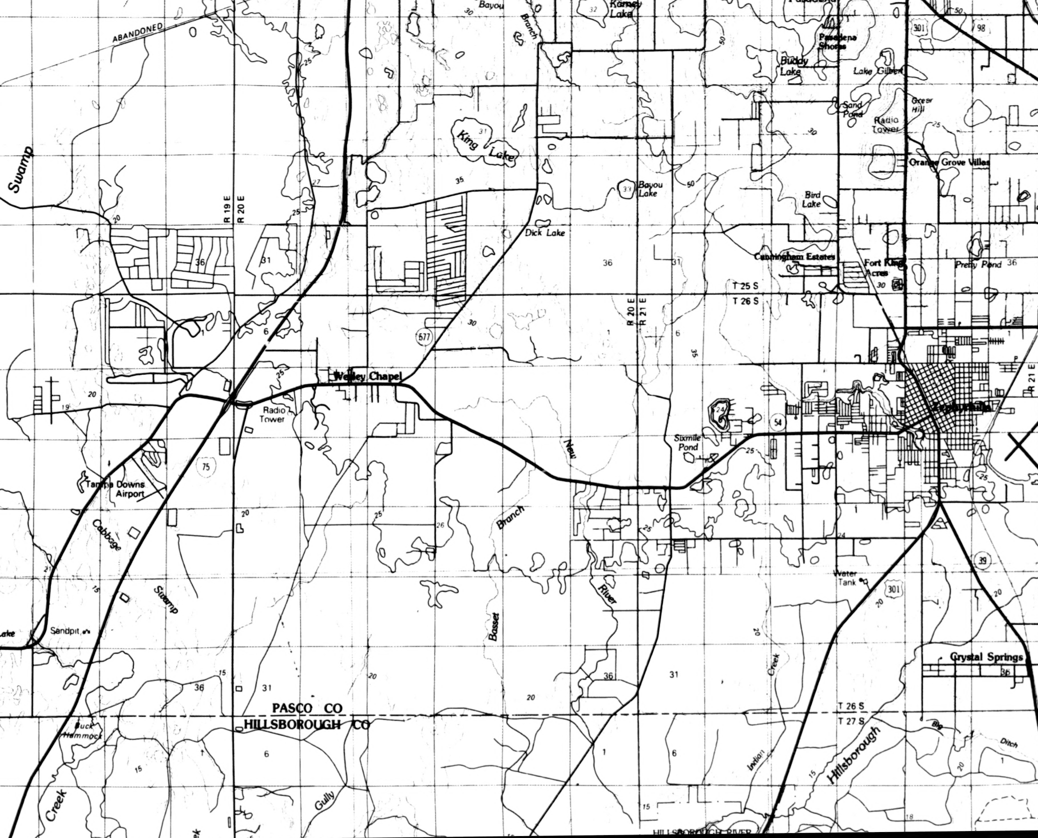
Produced by U.S. Fish and Wildlife Service and Minerals Management Service

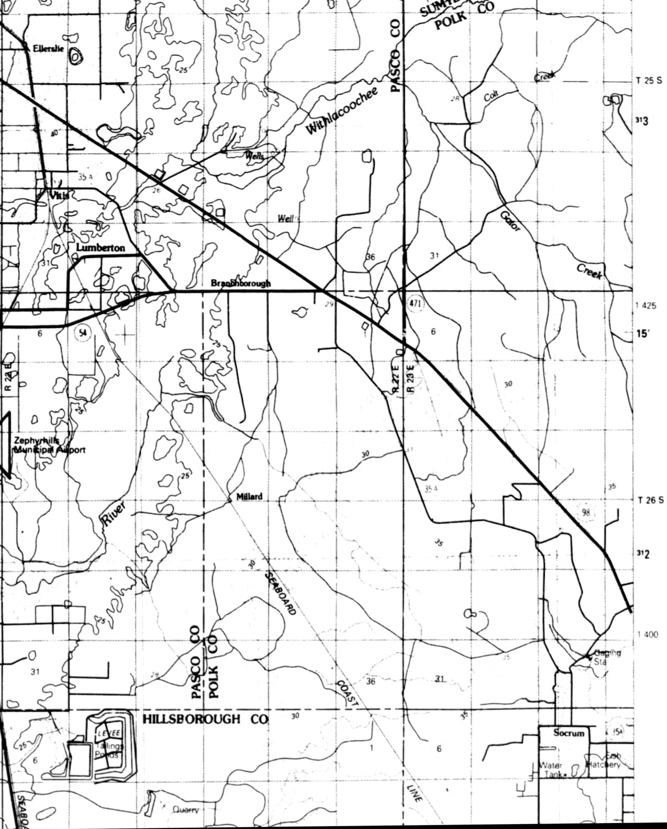
Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator


313
15'
312
1400


GULF OF MEX
Double Hammock Cr
19
5
Boggy Bay
Lake
Orchid Lake
Port Richey
31
587
5
Green Key
6
New Port Richey
Gulf Harbors
Hospital
5
Ben Pilot Point
Sand Bay
Sawyers Basin
Elfers
54
North Anclote Key
North Keys
Baileys Bluff
Radio Tower
R 15 E
R 16 E
River
Substat
Anclote Anchorage
Dutchman Key
Anclote Key
ANCLOTE MISSILE TRACKING ANNEX (U S ARMY)
5
Duck Slough
Holiday
Powerplant
Substation
Lake Conley
36
31
Anclote Keys
ANCLOTE STATE RECREATION AREA
Brady I
Anclote
PINELLAS COUNTY AQUATIC PRESERVE BOUNDARY
Lighthouse
Rabbit Key
Hospital
Victor
19
5
ABANDONED
Piney Point
Anclote
6
Salt Lake
Sunset Hills
Howard Park
OLD RAILROAD GRADE
Tarpon Springs
Well
582


Gowers Corner
Pierce Lake
Green Lake
River
Worley Lakes
Hidden Lake
Fivemile Creek
West Moon Lake
Moon Lake
Warren
Dead Cypress Lake
Pithlachascotee
T 25 S
T 26 S
R 18 E
R 19 E
Ehren
Bay Lake
Curve Lake
Wistaria Lake
Cypress
Big
River
R 17 E
R 18 E
Lake Thomas
Dupree Gardens
King Lake
Lake Patient
Anclote
R 16 E
R 17 E
Sandy Branch
ABANDONED
Land O' Lakes
Bell Lake
Gaging Sta
Seven Springs
South Branch
Lake Vienna
Big Lake Vienna
Padgett Lake
East Lake
Saxon Lake
Gaging Sta
54
Gooseneck Lake
Lake Linda
West Pasco Airport
Radio Tower
Odessa
Lake Minniola
Gaging Sta
Wells
Water Tank
Camp Lake
Catfish Lake
Twin L
587
Lake Ann
Lake Floyd
Bird Lake
54
Long Sun Lake
Mary Lou Lake
Moss Lake
Hog Island Lake
Tampa Lake
41
PASCO CO
T 26 S
T 27 S
Lake Dan
Osceola Lake
Lake Hiawatha
Browns Lake
597
Deer Lake
RAILROAD GRADE
Lake Frances
Lake Virginia
Feinsinger Lake
Wells
OLD
Island Ford Lake
Lake Fern
Little Lake Fern
Mound Lake
582
Cooper
Lutz


ABANDONED
Bayou
Branch
Lake
Pasadena Shores
Buddy Lake
Lake Gilbert
301
98
Greer Hill
Sand Pond
Radio Tower
Swamp
King Lake
Orange Grove Villas
Bird Lake
Bayou Lake
33
R 19 E
R 20 E
Dick Lake
Cunningham Estates
Fort King Acres
Pretty Pond
T 25 S
T 26 S
R 20 E
R 21 E
577
Wesley Chapel
Radio Tower
Zephyrhills
R 21 E
Sixmile Pond
24
54
New
75
Tampa Downs Airport
Cabbage
Branch
River
Swamp
Basset
Water Tank
301
39
Sandpit
Lake
Crystal Springs
Creek
PASCO CO
HILLSBOROUGH CO
T 26 S
T 27 S
Buck Hammock
Creek
Gully
Indian
Creek
Hillsborough
Big
Ditch
HILLSBOROUGH RIVER


SUMTER CO
POLK CO
PASCO CO
Ellerslie
Withlacoochee
Wells
Well
Colt
Creek
Gator
Creek
Vitis
Lumberton
Branchborough
471
54
R 22 E
R 23 E
R 22 E
Zephyrhills Municipal Airport
Millard
River
98
SEABOARD
COAST
LINE
PASCO CO
POLK CO
HILLSBOROUGH CO
LEVEE
Tailings Ponds
Gaging Sta
Socrum
Water Tank
Fish Hatchery
Quarry
T 25 S
T 26 S
313
312
1 425
1 400
15′

Au

Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000-foot grid ticks based on Florida coordinate system, west zone

Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

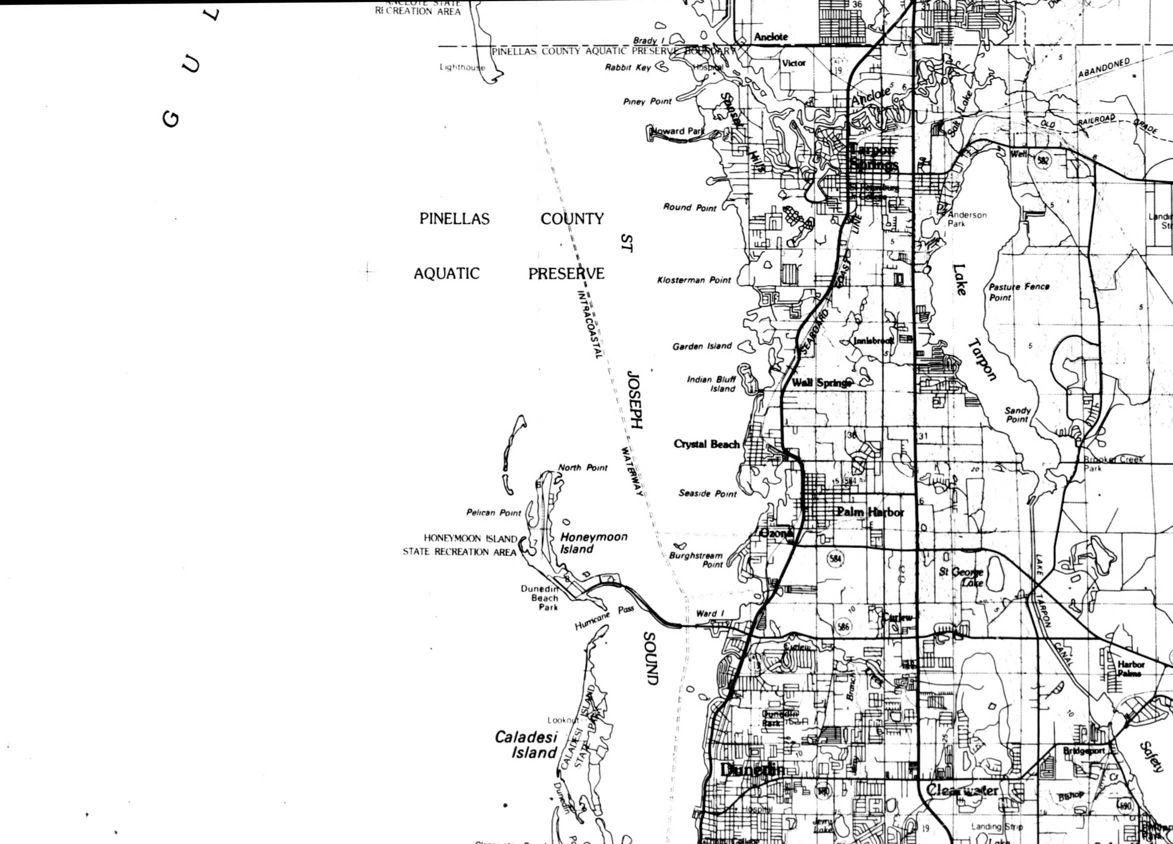
MAJOR SURFACE LANDFORMS

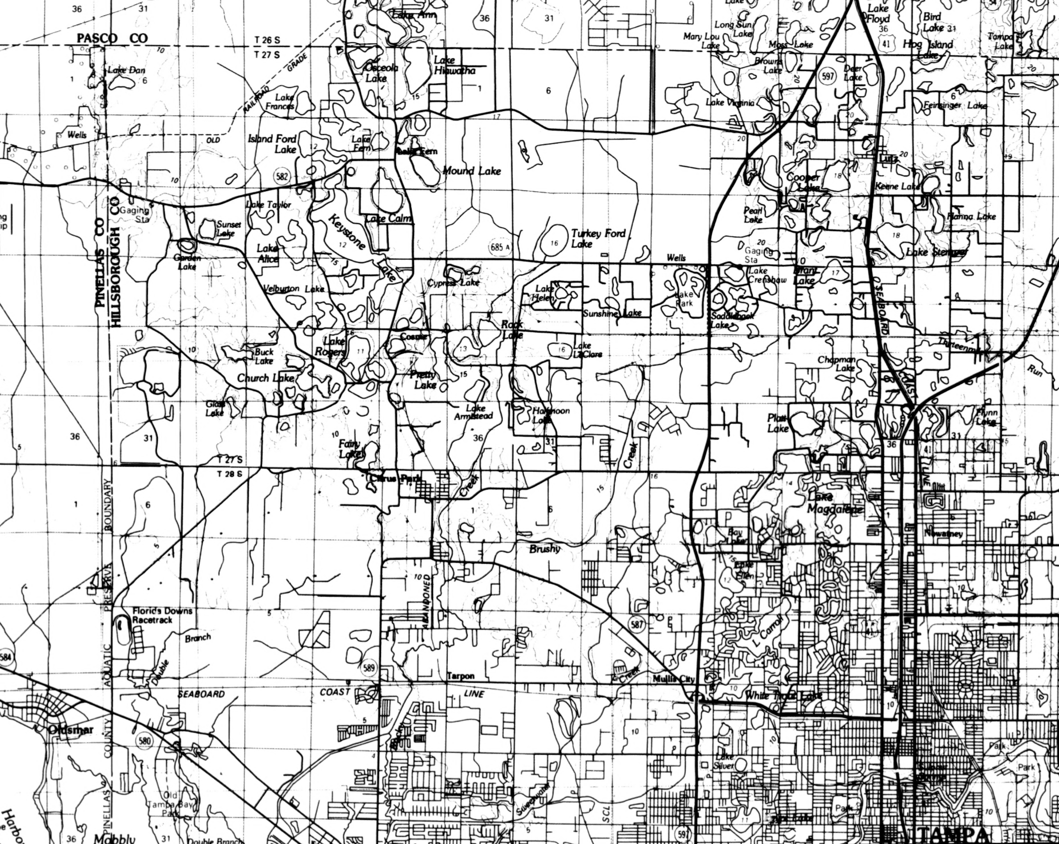
- Western Highlands
- Escambia Valley
- Gulf Coastal Lowlands
- Gulf Barrier Chain
- Marianna Lowlands
- New Hope Ridge
- Greenhead Slope
- Fountain Slope
- Grand Ridge
- Northern Highlands
- Coastal Swamps
- Brooksville Ridge
- Western Valley

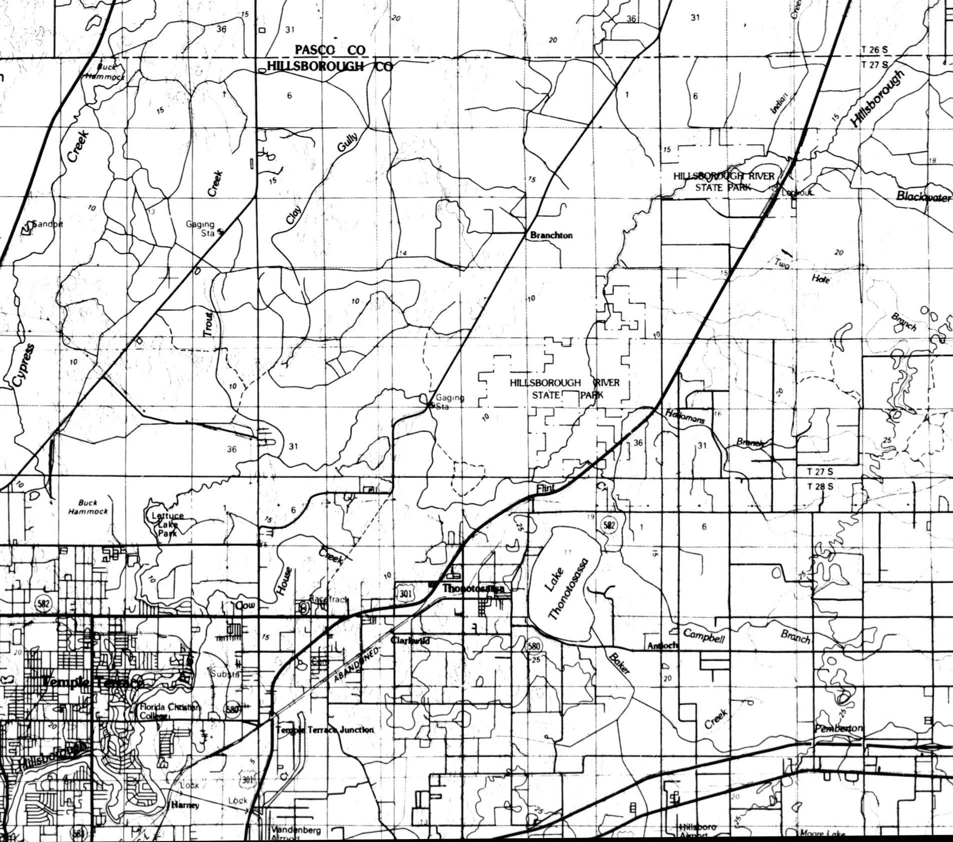
SOIL ASSOCIATIONS

1. Lakeland-Eustis-Lakewood Association
2. Lakeland, Ruston, and Norfolk-Sunsweet, Carnegie and Cuthbert Association
3. Red Bay-Blakely Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association
15. Red Bay-Lucy Association

31
1 350 000
FEET
31


G U L
ANCLOTE STATE RECREATION AREA
Lighthouse
PINELLAS COUNTY AQUATIC PRESERVE BOUNDARY
Brady I
Rabbit Key
Piney Point
Howard Park
Anclote
Victor
Hospital
19
36
31
Sunset Hills
Anclote
Salt Lake
ABANDONED
OLD RAILROAD GRADE
Well
582
Tarpon Springs
St Petersburg Jr College
Round Point
Anderson Park
PINELLAS COUNTY AQUATIC PRESERVE
ST JOSEPH SOUND
INTRACOASTAL WATERWAY
Klosterman Point
SEABOARD COAST LINE
Lake Tarpon
Pasture Fence Point
Garden Island
Innisbrook
Indian Bluff Island
Wall Springs
Sandy Point
Crystal Beach
North Point
Brooker Creek Park
Seaside Point
Pelican Point
Palm Harbor
Ozona
HONEYMOON ISLAND STATE RECREATION AREA
Honeymoon Island
Burghstream Point
584
St George Lake
Dunedin Beach Park
Hurricane Pass
Ward I
586
Curlew
LAKE TARPON CANAL
Harbor Palms
Branch Creek
Dunedin Park
Lookout
Caladesi Island
CALADESI ISLAND STATE PARK
Dunedin
Dunedin
Clearwater
Bridgeport
Bishop
590
Safety
Landing Strip
Jerry Lake
Hospital


PASCO CO
T 26 S
T 27 S
RAILROAD GRADE
Lake Dan
Lake Ann
Lake Floyd
Bird Lake
Long Sun Lake
Mary Lou Lake
Moss Lake
Hog Island Lake
Tampa Lake
Osceola Lake
Lake Hiawatha
Browns Lake
Deer Lake
597
41
Lake Frances
Lake Virginia
Feinsinger Lake
Wells
OLD
Island Ford Lake
Lake Fern
Lake Fern
Mound Lake
582
Lutz
Cooper Lake
Keene Lake
Gaging Sta
Lake Taylor
Sunset Lake
Keystone Lake
Lake Calm
Pearl Lake
Hanna Lake
PINELLAS CO
HILLSBOROUGH CO
Garden Lake
Lake Alice
685 A
Turkey Ford Lake
Gaging Sta
Lake Stemper
Wells
Velburton Lake
Cypress Lake
Lake Helen
Lake Crenshaw
Grant Lake
Lake Park
Sunshine Lake
Saddleback Lake
SEABOARD
Rock Lake
Cosme
Lake Rogers
Buck Lake
Lake LeClare
Thirteenmile Run
Church Lake
Pretty Lake
Chapman Lake
COAST
Glass Lake
Lake Armistead
Halfmoon Lake
Platt Lake
Flynn Lake
Fairy Lake
T 27 S
T 28 S
Citrus Park
Creek
Creek
LINE
BOUNDARY
Lake Magdalene
Nowatney
Bay Lake
Brushy
Lake Ellen
PRESERVE
AQUATIC
COUNTY
ABANDONED
Florida Downs Racetrack
Branch
Double
584
587
L Carroll
589
Tarpon
SEABOARD
COAST
LINE
Mullis City
Creek
White Trout Lake
Oldsmar
580
Lake Silver
Park
Park
Sulphur Springs
Old Tampa Bay Park
PINELLAS
Sweetwater
SCL
597
Harbor
Mobbly
Double Branch
TAMPA


PASCO CO
HILLSBOROUGH CO
T 26 S
T 27 S
T 27 S
T 28 S
Buck Hammock
Cypress Creek
Sandpit
Trout Creek
Gaging Sta
Clay Gully
HILLSBOROUGH RIVER STATE PARK
Lookout
Blackwater
Hillsborough
Indian
Branchton
Two Hole Branch
Hollomans Branch
Flint Cr
Lettuce Lake Park
Buck Hammock
House Creek
Cow
Racetrack
Thonotosassa
Lake Thonotosassa
Clarkwild
ABANDONED
Antioch
Campbell Branch
Baker Creek
Pemberton
Temple Terrace
Florida Christian College
Substa
Temple Terrace Junction
Hillsborough
Lock
Lock
Harney
Vandenberg Airport
Hillsboro Airport
Moore Lake
582
582
580
580
301
301
583
36
31
6
1
36
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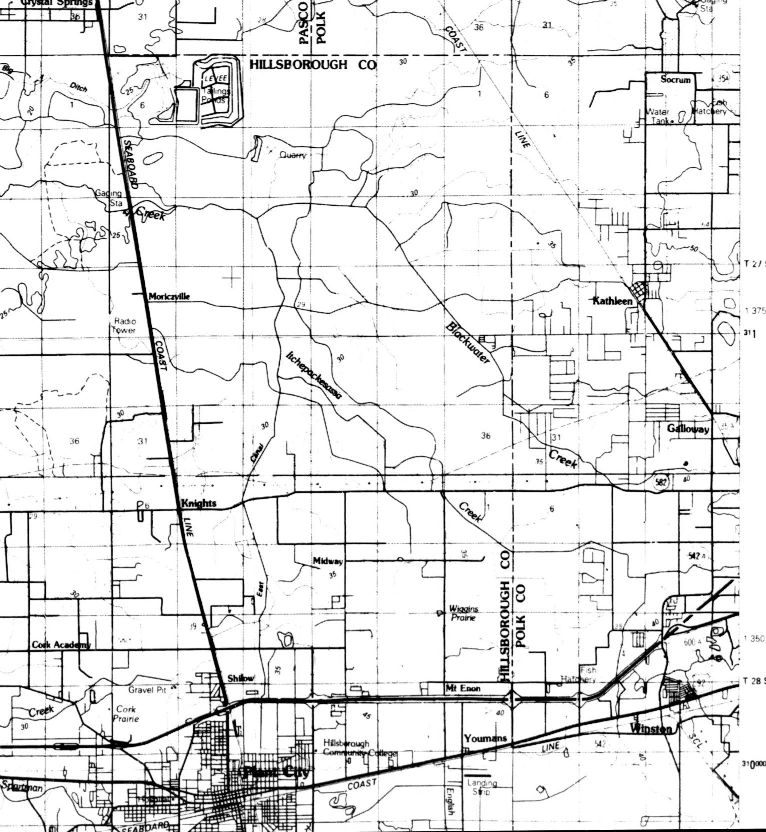

Crystal Springs
PASCO
POLK
HILLSBOROUGH CO
COAST
LINE
SEABOARD
LEVEE
Tailings
Ponds
Big
Ditch
Quarry
Socrum
Water
Tank
Fish
Hatchery
Gaging
Sta
Creek
Moriczville
Radio
Tower
Itchepackesassa
Blackwater
Kathleen
Galloway
Canal
Creek
Knights
Midway
East
Wiggins
Prairie
HILLSBOROUGH CO
POLK CO
Cork Academy
Shiloh
Gravel Pit
Mt Enon
Cork
Prairie
Fish
Hatchery
Youmans
Winston
SCL
Hillsborough
Community College
Plant City
Landing
Strip
English
Sparkman
SEABOARD
T 27 S
T 28 S
1 375
1 350
311
3100000m N
582
542 A
600 A
542
92

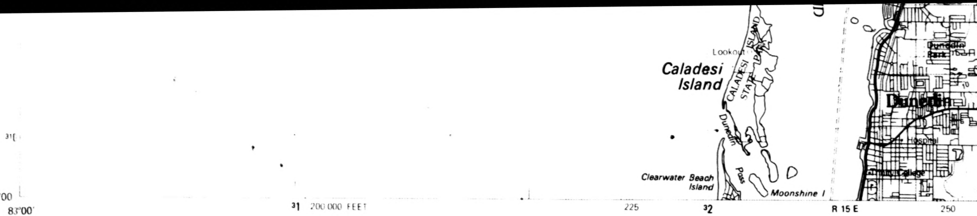
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Associatio
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association
15. Red Bay-Lucy Association
16. Chipley-Scranton Association
17. Johns-Leaf Association
18. Salt Water Marsh-Bayvi-Dirego Association
19. Fuquay-Lucy-Troup Association
20. Dothan-Orangeburg-Tifton Association
21. Lakeland-Faceville Association
22. Chipley-Albany-Leon Association
23. Ardilla-Leefield-Stilson Association
24. Tifton-Faceville-Greenville Association
25. Norfolk-Ruston-Goldsboro Association
26. Tifton-Faceville-Marlboro Association
27. Lakeland-Cuthbert-Shubuta Association
28. Blanton-Klej-Plummer Association
29. Goldsboro-Lynchburg-Rains Association
30. Kureb-Resota-Mandarin Association
31. Lakeland-Foxworth-Centenary Association
32. Leefield-Albany-Stilson Association
33. Hurricane-Chipley-Albany Association
34. Pottsburg-Leon-Rutlege Association
35. Plummer-Pelham Association
36. Rutlege-Allanton-Pickney Association
37. Chipley-Albany-Stilson Association
38. Leon-Albany-Plummer-Chipley-Osier Association
39. Dunbar-Bladen Association
40. Dothan-Stilson-Lucy Association
41. Ardilla-Leefield-Pansey Association
42. Chipley-Albany-Blanton Association
43. Leon-Felda-Matmon Association
44. Dothan-Orangeburg-Red Bay Association
45. Alpin-Blanton-Eustis Association
46. Orangeburg-Lucy-Dothan Association
47. Chipley-Albany-Plummer Association
48. Leon-Mascotte-Rutlege Association
49. Broward, var.-Matmon-Osier Association
50. Manatee, var.-Felda, Var.-Copeland, Var. Association
51. Fresh Water Swamp, Shallow to Limestone Associatio
52. Salt Water Marsh and Swamp-Coastal Dunes Associati
53. Alpin-Blanton Association
54. Chipley-Blanton-Swamp Association
55. Adamsville, var.-Chiefland-Blanton Association
56. Candler-Apopka Association
57. Jonesville-Chiefland-Archer Association
58. Arredondo-Gainesville Association
59. Hernando-Archer-Chiefland Association
60. Sparr-Lochloosa-Tavares Association
61. Adamsville-Osier Association
62. Bushnell-Wabasso-Felda Association
63. Blichton-Flemington-Kanapaha Association
64. Leon-Mascotte-Surrency Association

n

n
ion

28

MICROCOPY RESOLUTION TEST CHART
NBS 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6
6.3


Lookout
Caladesi
Island
CALADESI ISLAND STATE PARK
Dunedin
Pass
Clearwater Beach
Island
Moonshine I
Dunedin
Park
10
Hospital
College
31
00
83°00′
31
200 000 FEET
225
32
R 15 E
250

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS - 82/47) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES THE COASTAL COUNTIES: ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, WASHINGTON, BAY, CALHOUN, GULF, FRANKLIN, WAKULLA, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS OFFSHORE APPROXIMATELY 10 MILES. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

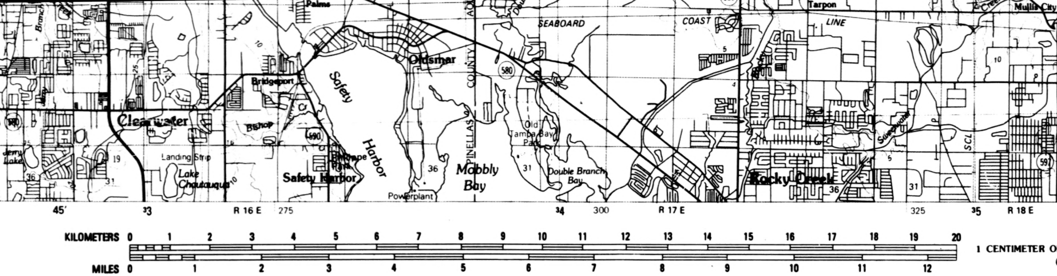
LANDFORMS: Physiographic Map of Florida, State Bureau of Geology, 1980.

SOILS: General Soils Atlas of Florida, Division of State Planning, 1975. General Soils Atlas of Florida, U.S. Soil Conservation Service, 1982.

ACTIVE DUNES: Black and White Aerial Photography, 1:80,000 Scale, Mark Hurd Aerial Surveys Inc., 1980. Topographic Maps, 1:24,000 Scale, U.S. Geological Survey, various dates.

GEOLOGIC FAULTS: Map of Escambia and Santa Rosa Counties Showing Contours on top of the Lower Limestone of the Floridan Aquifer, State Bureau of Geology, 1965.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE


Palms
Tarpon
Mullis City
SEABOARD
COAST
LINE
Branch
Oldsmar
Bridgeport
Safety
Harbor
Clearwater
Bishop
Landing Strip
Lake Chautauqua
Safety Harbor
Philippe Park
PINELLAS
COUNTY
580
590
597
19
10
25
36
31
5
4
Mobbly Bay
Powerplant
Old Tampa Bay Park
Double Branch Bay
Rocky Creek
Sweetwater
SCL
Jerry Lake
45′
33
R 16 E
275
34
300
R 17 E
325
35
R 18 E
KILOMETERS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
MILES 0 1 2 3 4 5 6 7 8 9 10 11 12
1 CENTIMETER O

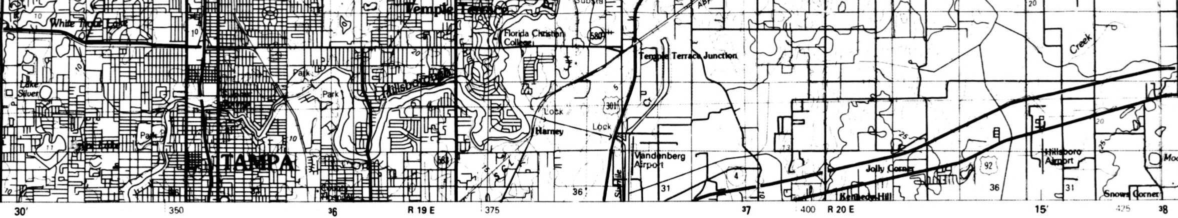
66. **Candler-Paola-Tavares Association:**
excessively drained soils with very
thin loamy or sandy loam lamella
moderately well drained soils, san

68. **Arredondo-Kendrick Association:** N
well drained soils with very thick s
subsoil.

71. **Myakka-Basinger Association:** Nea
sandy soils with weakly cemented
poorly drained soils, sandy throug

74. **Arredondo-Sparr-Kendrick Associat**
sloping, well drained and somewha
soils over loamy material.

76. **Masaryk Association:** Nearly level
moderately well drained sandy soi
material.


White Trout Lake
Temple Terrace
Florida Christian College
Temple Terrace Junction
Creek
Lake Silver
Park
Hillsborough
Lock
Harney
Lock
TAMPA
Vandenberg Airport
Jolly Corner
Hillsboro Airport
Kennedy Hill
Snows Corner
30′
350
36
R 19 E
375
37
400
R 20 E
15′
425
38

SCALE 1:100 000

N THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 5 METERS

0 1000 5000 10 000 15 000 20 000 METERS
0 5000 10 000 15 000 20 000 25 000 30 000 35 000 40 000 45 000 50 000 55 000 60 000 65 000 FEET

Nearly level to sloping,
thick sandy layers over
and excessively and
dy throughout.

early level to sloping,
andy layers over loamy

ly level, poorly drained
sandy subsoil and
hout.

ion: Nearly level, to
t poorly drained sandy

to gently sloping,
ls overlying loamy

77. Nobelton-Blichton-Flemington Association: Nearly level to strongly sloping, poorly drained fine sands and sandy loams overlying loamy and clayey material.

78. EauGallie-Wabasso-Basinger Association: Nearly level, poorly drained sandy soils which are either sandy throughout or overlie loamy material.

79. Paisley-Floridana-Wabasso Association: Nearly level, poorly drained sandy soils overlying a clayey subsoil or loamy material.

80. Okeelanta-Aripeka-Terra Ceia Association: Nearly level, very poorly drained organic soils overlying sandy material or loamy soils overlying limestone.

81. Homosassa-Weekiwachee-Lacoochee Association: Nearly level, very poorly drained organic and mineral soils, and poorly drained, thin, sandy soils overlying limestone which are subject to frequent tidal flooding.

83. Salt Water Marsh and Swamp Association: Nearly level, very poorly drained soils subject to frequent tidal flooding.

84. Fresh Water Swamp and Marsh Association: Nearly level, very poorly drained soils subject to prolonged flooding.

85. Blichton-Lochloosa-Kendrick Association: Nearly level to sloping, poorly drained sandy soils with loamy subsoils; somewhat poorly drained soils with thick sandy layers over loamy subsoil; and well drained soils with very thick sandy layers over loamy subsoil.

86. Paisley-Bushnell Association: Nearly level to gently sloping, poorly and somewhat poorly drained soils with thin sandy layers over clayey subsoil.

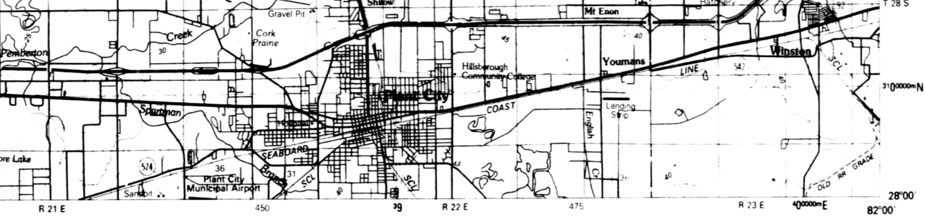
87. Myakka-Pomello-Basinger Association: Nearly level, poorly drained and moderately well drained sandy soils with weakly cemented sandy subsoil and poorly drained soils sandy throughout.

E=__ft/yr BEACH EROSION AREA (Period of Rec
Univ. of West Florida, 1981)

A=__ft/yr BEACH ACCRETION AREA (Period of R
Univ. of West Florida, 1981)

■ GULF BARRIER ISLAND

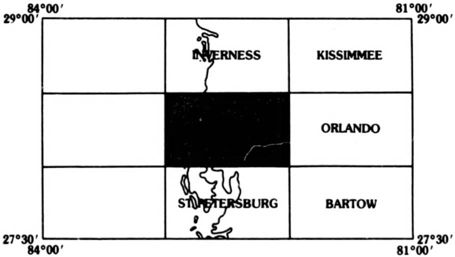
Ⓓ ACTIVE DUNE AREA


Shiloh
Gravel Pit
Mt Enon
Hatchery
T 28 S
Creek
Cork Prairie
Pemberton
30
45
40
Youmans
Winston
542
LINE
SCL
Hillsborough Community College
Plant City
310000m N
Spartman
COAST
Landing Strip
English
Hospital
SEABOARD
ore Lake
574
36
Plant City Municipal Airport
Sandpit
Broad
31
SCL
SCL
OLD RR GRADE
28°00′
R 21 E
450
39
R 22 E
475
R 23 E
400000m E
82°00′

TARPON SPRINGS, FLA.

N2800—W8200/30 X 60

1978


84°00′
29°00′
81°00′
29°00′
INVERNESS
KISSIMMEE
ORLANDO
ST PETERSBURG
BARTOW
27°30′
84°00′
27°30′
81°00′

ord: 1957-1981;

ecord: 1957-1981;

U
D

NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

U
D

SUB-SURFACE NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

STUDY AREA BOUNDARY

▪▪▪▪▪▪▪▪▪▪▪▪ Offshore

— - — - Inland (County)

— - - — Inland (State)

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87.

Chipley-Blanton-Swamp Association
Adamsville, var.-Chiefland-Blanton Association
Candler-Apopka Association
Jonesville-Chiefland-Archer Association
Arredondo-Gainesville Association
Hernando-Archer-Chiefland Association
Sparr-Lochloosa-Tavares Association
Adamsville-Osier Association
Bushnell-Wabasso-Felda Association
Blichton-Flemington-Kanapaha Association
Leon-Mascotte-Surrency Association
Lynne-Pomona-Pompano Association
Candler-Paola-Tavares Association
Candler-Adamsville-Pompano Association
Arredondo-Kendrick Association
Broward-Boca Association
Panasoffkee-Bushnell Association
Myakka-Basinger Association
Meggett, var.-Pompano Association
Terra Ceia-Placid Association
Arredondo-Sparr-Kendrick Association
Candler-Lake Association
Masaryk Association
Nobleton-Blichton-Flemington Association
EauGallie-Wabasso-Basinger Association
Paisley-Floridana-Wabasso Association
Okeelanta-Aripeka-Terra Ceia Association
Homosassa-Weekiwachee-Lacoochee Association
Floridana-Basinger Association
Salt Water Marsh and Swamp Association
Fresh Water Swamp and Marsh Association
Blichton-Lochloosa-Kendrick Association
Paisley-Bushnell Association
Myakka-Pomello Association

MICROFILMED FROM
BEST AVAILABLE CO

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6